

Table HC9.5 Space Heating Usage Indicators by Climate Zone, 2005
Million U.S. Housing Units

Space Heating Usage Indicators	Housing Units (millions)	Climate Zone ¹				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
Total U.S. Housing Units.....	111.1	10.9	26.1	27.3	24.0	22.8
Do Not Have Heating Equipment.....	1.2	Q	Q	N	0.3	0.8
Have Space Heating Equipment.....	109.8	10.9	26.0	27.3	23.7	22.0
Use Space Heating Equipment.....	109.1	10.9	26.0	27.3	23.2	21.7
Have But Do Not Use Equipment.....	0.8	N	N	Q	0.5	Q
Space Heating Usage During 2005						
Heated Floorspace (Square Feet)						
None.....	3.6	Q	0.5	Q	1.4	1.4
1 to 499.....	6.1	0.2	1.2	1.5	1.9	1.2
500 to 999.....	27.7	2.3	6.9	6.5	6.5	5.6
1,000 to 1,499.....	26.0	1.9	5.3	6.4	6.1	6.4
1,500 to 1,999.....	17.6	1.9	4.0	4.5	3.3	3.9
2,000 to 2,499.....	10.7	1.3	2.6	3.1	1.9	1.8
2,500 to 2,999.....	7.7	1.1	2.1	1.6	1.5	1.4
3,000 to 3,499.....	3.8	0.6	1.2	1.1	0.5	0.4
3,500 to 3,999.....	2.6	0.6	0.9	0.7	Q	Q
4,000 or More.....	5.2	1.0	1.3	1.7	0.6	0.6
Total Number of Rooms (Excluding Bathrooms)						
0.....	2.1	Q	0.5	Q	0.9	0.4
1 or 2.....	3.1	0.2	0.9	0.8	0.5	0.6
3.....	8.3	0.5	1.9	2.2	1.9	1.8
4.....	16.6	1.6	3.6	4.2	3.4	3.7
5.....	23.3	2.0	5.6	5.4	5.2	5.0
6.....	22.6	2.4	4.7	5.3	5.1	5.0
7.....	16.3	1.7	3.7	4.1	3.5	3.3
8.....	9.7	1.2	2.4	2.7	1.8	1.7
9 or More.....	9.1	1.2	2.7	2.4	1.5	1.3
At Home Behavior						
Home Used for Business						
Yes.....	8.9	1.5	1.5	2.1	1.9	1.9
No.....	102.2	9.5	24.6	25.2	22.0	20.9
Someone Home All Day						
Yes.....	56.4	5.0	13.3	13.8	12.4	12.0
No.....	54.7	6.0	12.8	13.6	11.6	10.8
Housing Unit Characteristics Affecting Usage						
Adequacy of Insulation						
Well Insulated.....	42.8	5.0	10.2	10.9	8.7	8.1
Adequately Insulated.....	46.3	4.3	10.8	11.0	10.2	10.0
Poorly Insulated.....	19.0	1.5	4.3	4.8	4.5	3.9
No Insulation.....	1.4	Q	0.2	Q	0.4	0.5
Don't Know.....	1.7	Q	0.5	0.4	Q	0.4
Home is Too Drafty During the Winter						
Never.....	62.9	6.0	13.3	14.5	13.7	15.5
Some of the Time.....	32.4	3.4	7.9	8.8	7.4	4.8
Most of the Time.....	6.1	0.7	1.7	1.6	1.3	0.8
All of the Time.....	5.6	0.2	2.0	1.6	1.2	0.7
Don't Know.....	4.1	0.5	1.1	0.9	0.5	1.0

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Unusually High Ceilings						
Yes.....	27.2	3.0	5.6	5.6	6.4	6.7
No.....	76.9	7.3	19.3	20.4	15.8	14.2
Not Asked (Mobile Homes).....	6.9	0.7	1.2	1.3	1.8	2.0
Cathedral Ceilings (In Housing Units with High Ceilings)						
Yes.....	17.1	2.2	3.3	3.2	4.1	4.4
No.....	10.1	0.8	2.3	2.4	2.3	2.3
Type of Glass in Windows						
Single-pane Glass.....	50.7	3.1	9.1	9.5	13.7	15.2
Double-pane Glass						
Without Low-e Coating.....	50.6	5.9	14.0	15.7	8.8	6.3
With Low-e Coating.....	8.0	1.7	2.3	1.7	1.3	1.0
Triple-pane Glass						
Without Low-e Coating.....	1.0	Q	0.4	Q	Q	Q
With Low-e Coating.....	0.3	Q	Q	Q	Q	Q
Proportion of Original Windows Replaced						
All.....	22.4	2.4	7.0	7.0	4.0	2.0
Some.....	21.6	2.7	5.5	5.6	4.0	3.8
None.....	62.3	5.4	12.4	13.4	15.0	16.0
Don't Know.....	4.7	0.4	1.2	1.2	0.9	1.0
Thermostats						
Do Not Have a Thermostat.....	15.3	0.7	2.6	4.3	3.8	3.8
Have a Thermostat.....	95.8	10.2	23.4	23.0	20.1	19.0
1.....	84.5	8.4	20.4	19.9	18.3	17.5
2 or More.....	11.3	1.8	3.1	3.1	1.9	1.5
Have a Programmable Thermostat						
Yes.....	33.1	3.3	8.3	7.2	8.3	6.0
No.....	62.7	6.9	15.2	15.8	11.8	13.0
Use of Programable Thermostats						
Reduces Temperature During Day						
Yes.....	18.6	2.0	5.1	4.0	4.3	3.1
No.....	14.5	1.3	3.2	3.2	4.1	2.9
Reduces Temperature at Night						
Yes.....	21.5	2.2	5.6	4.7	5.2	3.7
No.....	11.6	1.1	2.7	2.5	3.1	2.2

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Winter 2005 Temperature Settings								
Lower Temperature Settings								
Daytime When No One is at Home								
Yes.....	40.5	6.0	11.7	10.0	6.8	5.9		
No.....	59.1	4.6	13.2	15.3	13.0	13.1		
Unknown.....	11.4	0.3	1.2	2.0	4.2	3.8		
During Sleeping Hours								
Yes.....	40.7	6.1	11.0	9.9	7.9	5.9		
No.....	60.2	4.6	14.1	15.7	12.7	13.1		
Unknown.....	10.2	0.3	1.0	1.7	3.4	3.7		
Daytime Setting When No One is at Home								
Heat Turned On.....	93.7	10.6	24.7	25.0	16.1	17.4		
63 Degrees or Less.....	18.9	3.3	5.8	4.8	3.1	2.0		
64 to 66 Degrees.....	17.4	2.6	4.9	4.8	2.7	2.3		
67 to 69 Degrees.....	17.8	2.2	5.6	4.7	3.0	2.3		
70 Degrees.....	16.0	1.4	4.0	5.4	2.7	2.5		
71 to 73 Degrees.....	10.2	0.8	2.2	3.0	1.9	2.3		
74 Degrees or More.....	13.5	0.3	2.1	2.4	2.7	5.9		
Don't Know/No Answer.....	7.4	Q	1.0	1.9	2.4	1.8		
Do Not Use Space Heating.....	1.3	Q	Q	N	0.3	0.8		
Heat Turned Off.....	8.7	Q	0.3	0.4	5.2	2.8		
Daytime Setting When Someone is at Home								
Heat Turned On.....	101.5	10.7	25.1	25.6	21.0	19.1		
63 Degrees or Less.....	4.1	0.4	1.2	1.4	0.8	0.3		
64 to 66 Degrees.....	8.2	1.5	2.1	2.5	1.3	0.8		
67 to 69 Degrees.....	23.6	3.5	7.7	5.4	4.5	2.6		
70 Degrees.....	24.6	2.8	6.5	6.8	5.1	3.4		
71 to 73 Degrees.....	17.6	1.7	3.9	5.3	3.4	3.3		
74 Degrees or More.....	23.2	0.9	3.6	4.2	5.8	8.7		
Don't Know/No Answer.....	6.0	Q	0.8	1.6	1.6	1.8		
Do Not Use Space Heating.....	1.3	Q	Q	N	0.3	0.8		
Heat Turned Off.....	2.3	N	Q	Q	1.2	1.0		
Setting During Sleeping Hours								
Heat Turned On.....	98.1	10.7	24.9	25.5	18.6	18.5		
63 Degrees or Less.....	13.0	2.5	3.8	3.3	2.6	0.9		
64 to 66 Degrees.....	18.4	3.1	5.3	4.8	2.8	2.4		
67 to 69 Degrees.....	20.8	2.7	6.4	5.2	3.8	2.6		
70 Degrees.....	18.5	1.3	4.3	5.7	3.7	3.5		
71 to 73 Degrees.....	11.1	0.6	2.5	3.3	2.1	2.5		
74 Degrees or More.....	16.3	0.5	2.6	3.1	3.6	6.5		
Don't Know/No Answer.....	6.4	Q	0.9	1.7	1.8	1.8		
Do Not Use Space Heating.....	1.3	Q	Q	N	0.3	0.8		
Heat Turned Off.....	5.4	N	Q	Q	3.3	1.7		

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Secondary Heating								
Use Any Secondary Heating Equipment								
Yes.....	34.9	4.6	8.0	8.7	8.8	4.9		
No.....	74.9	6.3	18.0	18.6	14.9	17.0		
Proportion of Heat Provided by Secondary Heating Equipment								
Close to One-Half.....	4.4	0.5	1.1	1.1	1.2	0.5		
About One-Quarter.....	5.8	0.9	1.3	1.4	1.5	0.8		
Very Little or None.....	24.7	3.2	5.7	6.2	6.0	3.6		
Type of Supplemental Heating Equipment Used								
Heat Pump.....	0.6	Q	Q	0.3	Q	Q		
Central Warm-Air Furnace.....	2.3	0.4	0.4	0.7	0.6	0.3		
Steam/Hot Water System.....	Q	Q	Q	Q	N	N		
Built-in Electric Units.....	2.2	0.6	0.6	0.5	0.3	Q		
Built-in Pipeless Furnace.....	0.3	Q	Q	Q	Q	Q		
Built-in Room Heaters.....	1.4	0.2	0.5	Q	Q	Q		
Heating Stove.....	2.1	0.5	0.7	0.4	0.3	Q		
Portable Electric Heaters.....	14.3	1.0	3.7	3.6	3.8	2.2		
Portable Kerosene Heaters.....	0.6	Q	Q	Q	Q	N		
Cooking Stove.....	0.5	Q	Q	Q	Q	Q		
Fireplace.....	10.5	1.5	1.9	2.4	2.9	1.8		
Fireplace Fuel								
Wood.....	6.9	1.0	1.0	1.6	2.0	1.4		
Natural Gas.....	2.7	0.5	0.7	0.4	0.8	0.3		
Propane.....	0.9	Q	Q	0.3	Q	Q		
Use of Gas Fireplace During Winter Months								
Most Days.....	1.2	0.2	Q	Q	0.4	Q		
About Once a Week.....	1.3	Q	0.4	0.3	Q	Q		
Less than 4 Times each Month.....	1.1	Q	0.3	Q	0.3	Q		
Humidifier Use Each Year								
Use a Humidifier.....	14.2	2.6	5.2	3.9	1.6	0.9		
1 to 3 Months Each Year.....	7.1	1.3	2.4	1.9	0.9	0.6		
4 to 6 Months Each Year.....	5.6	1.1	2.4	1.5	0.4	Q		
7 to 9 Months Each Year.....	0.4	Q	Q	Q	N	Q		
10 to 11 months.....	Q	N	Q	Q	N	Q		
Turned on All Year Long.....	1.1	Q	0.2	0.4	0.2	Q		
Do Not Use a Humidifier.....	96.9	8.3	20.8	23.4	22.4	22.0		

1. One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See Glossary for definition of terms used in these tables.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2005 Residential Energy Consumption Survey.